1 box Refs

VIA HAND DELIVERY TO EXAMINER J. RILEY, GROUP ART UNIT 1637

PATENT DS RM

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE (Case No. 00-713-B1)

In the Application of:)	
Chad A. Mirkin, et al.))	15
Serial No.: 09/923,625) Examiner: J. Riley) Group Art Unit: 1627	03 JI
Filed: August 7, 2001) Group Art Unit: 1637) Confirmation No: 2286	JE 24
For: NANOPARTICLES HAVING OLIGONUCLEOTIDES ATTACHED THERETO AND USES THEREFOR))))	PH 1: 18

TRANSMITTAL LETTER

Commissioner for Patents Washington, D.C. 20231

Sir:

In regard to the above identified application.

- 1. We are transmitting herewith the attached:
 - a) Sixth Supplemental Information Disclosure Statement;
 - b) U.S. PTO 1449 Form with copies of 29 references; and
 - c) Return Postcard.
- 2. With respect to additional fees:

A check in the amount of \$0.00 is attached.

3. <u>GENERAL AUTHORIZATION</u>: Please charge any additional fees or credit overpayment to Deposit Account No. 13-2490. A duplicate copy of this sheet is enclosed.

Date: 173 03

espectfully submitted,

Emily Miao

Registration No. 35,285

PATENT

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In the	Application of:)	
	Chad A. Mirkin, et al.)	
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Serial	No.: 09/923,625)	
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	•)	Confirmation No: 2286
For:	NANOPARTICLES HAVING)	
•	OLIGONUCLEOTIDES ATTACHED)	
	THERETO AND USES THEREFOR)	

Commissioner for Patents Washington, D.C. 20231

SIXTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In order to comply with discretionary regulations 37 CFR §§1.97 and 1.98, attached hereto is Form PTO-1449, copies¹ of the documents listed thereon. These documents contain information which the Examiner may consider to be important in deciding whether to allow the present application to issue as a patent.

- 1. Merrill, et al., U.S. Patent No. 5,830,986, issued November 3, 1998.
- 2. Lough, et al., U.S. Patent No. 5,900,481, issued May 4, 1999.
- 3. Goldberg, et al., U.S. Patent No. 6,203,989, issued March 20, 2001
- 4. Bawendi, et al., U.S. Patent No. 6,251,303, issued June 26, 2001.

¹To the extent that a document is listed and no copy of same is attached, then such document is not at the present time available to the undersigned or is available in the file of a parent application. If a listed document is not in the English language and an English translation is readily available, such translation is also attached; if translation is not attached it is not readily available to the undersigned. If a foreign language patent document is cited, and an English language equivalent is known to the undersigned, then such equivalent patent is also cited on the attached form along with the corresponding foreign language patent and a connecting arrow indicated therebetween; if no such English language equivalent is cited, then none is known to undersigned.

- 5. Abbott, et al., U.S. Patent No. 6,277,489, issued August 21, 2001.
- 6. Bawendi, et al., U.S. Patent No. 6,306,610, issued October 23, 2001
- 7. Mirkin, et al, U.S. Patent No. 6,361944, issued March 26, 2002.
- 8. Wagner, et al., U.S. Patent No. 6,365,418, issued April 02, 2002
- 9. Mirkin, et al., U.S. Patent No. 6,417,340, issued July 09, 2002
- 10. WO 93/25709 published 23 December 1993.
- 11. WO 98/04740 published 5 January 1998
- 12. WO 98/17317 published 30 April 1998
- 13. WO 99/60169 published 25 November 1999
- 14. WO 00/33079 published 8 June 2002
- 15. WO 01/00876 published 4 January 2001
- 16. WO 01/51665 published 19 July 2001
- 17. WO 01/73123 published 4 October 2001
- 18. WO 01/86301 published 15 November 2001
- 19. WO 02/04681 published 17 January 2002
- 20. WO 02/18643 published 7 March 2002
- 21. WO 02/36169 published 10 May 2002
- 22. WO 02/46483 published 13 June 2002
- 23. WO 02/46472 published 13 June 2002
- 24. Letsinger, R., et al., "Chemistry of Oligonucleotide-Gold Nanoparticle Conjugates," *Phosphorus, Sulfur and Silicon*, Volume 144, p. 359-362 (1999)
- 25. Letsinger, R., et al., "Use of a Steroid Cyclic Disulfide Anchor in Constructing Gold Nanoparticle—Oligonucleotide Conjugates," Bioconjugate Chem, p. 289-291 (2000)

- 26. Li Z., et al., "Multiple thiol-anchor capped DNA-gold nanoparticle conjugates," *Nucleic Acids Research*, Volume 30, p. 1558-1562 (2002)
- 27. Nuzzo R., et al., "Spontaneously Organized Molecular Assemblies. 3. Preparation and Properties of Solution Adsorbed Monolayers of Organic Disulfides on Gold Surfaces, " J. Am Chem. Soc., Volume 109, p. 2358-2368 (1987)
- 28. Otsuka, H, et al., "Quantitative and Reversible Lectin-Induced Association of Gold Nanoparticles Modified with α-Lactosyl-ω-mercapto-poly(ethyleneglycol)," J. Am Chem. Soc., Volume 123,-p. 8226-8230 (2001).
- 29. Wuelfing, P, et al, "Nanometer Gold Clusters Protected by Surface-Bound Monolaters of Thiolated Poly(ethylene glycol) Polymer Electrolyte," *J. Am. Chem. Soc.*, Volume 120, p. 12696-12697 (1998)

In accordance with MPEP Sections 609 and 707.05(b), it is requested that each document cited (including any cited in applicant's specification which is not repeated on the attached Form PTO-1449) be given thorough consideration and that it be cited of record in the prosecution history of the present application by initialing on Form PTO-1449. Such initialing is requested even if the Examiner does not consider a cited document to be sufficiently pertinent to use in a rejection, or otherwise does not consider it to be prior art for any reason, or even if the Examiner does not believe that the guidelines for citation have been fully complied with. This is requested so that each document becomes listed on the face of the patent issuing on the present application.

The present Disclosure Statement is being submitted in compliance with 37 CFR 1.56 insofar as an Examiner might consider any of the cited documents important in deciding whether to allow the application to issue as a patent, but the citation of each document is not to be construed as an admission that such document is necessarily relevant or prior art. No representation is intended that the cited documents represent the results of a complete search, and it is anticipated that the Examiner, in the normal course of examination, will make an independent search and will

determine the best prior art consistent with 37 CFR 1.104(a) and 1.106(b) and, in the course of each search, will review for relevance every document cited on the attached form even if not initialed.

Early and favorable consideration is earnestly solicited.

Dated:______ 23 0

McDonnell Boehnen Hulbert & Berghoff 300 South Wacker Drive Chicago, Illinois 60606

Telephone: (312) 913-0001 Facsimile: (312) 913-0002 Respectfully submitted,

Emily Miao

Registration No. 35,285